

REMARKS

In Response to the Final Office Action, Claims 1 and 11 are amended and Claim 3 is cancelled. Claims 5 and 7 were previously cancelled. Claims 1, 2, 4, 6 and 8-14 remain in the Application. Reconsideration of the pending claims is respectfully requested in view of the above amendment and the following remarks.

I. Claims Rejected Under 35 U.S.C. §103(a)

A. Claims 1, 3, 4, 6 and 8 stand rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 6,277,201 issued to Nishikawa (“Nishikawa”) taken in view of U.S. Patent No. 6,789,789 issued to Randive (“Randive”), U.S. Patent No. 6,473,563 issued to Takamatsu (“Takamatsu”) or Japanese Patent No. 2001-011634 issued to Ono (“Ono”).

To establish a *prima facie* case of obviousness, the relied upon references must teach or suggest every limitation of the claim such that the invention as a whole would have been obvious at the time the invention was made to one skilled in the art.

Claim 1 is amended to incorporate all of the limitations of Claim 3 and other patentable features. Claim 1, as amended, includes the elements:

“a transfer gas distributor installed in the source chamber, wherein the transfer gas distributor is a conic block or a conic plateand is formed such that the transfer gas cannot be transmitted therethrough in order to distribute widely along an outer inclined plane of the conic block or the conic plate the transfer gas flowing from the transfer gas inlet;

....

a transfer gas transfer line extended from the transfer gas supply source into the source chamber, a rear end of the transfer gas transfer line extended into the source chamber and including the transfer gas inlet, the transfer gas inlet formed by a first plurality of holes, the first plurality of holes to allow the transfer gas to enter the source chamber for distribution by the transfer gas distributor; and

an organic source vapor transfer line extended from inside the source chamber to the shower head, a front end of the organic source vapor transfer line extended into the source chamber and including an organic source vapor outlet, the organic source vapor outlet formed by a second plurality of holes, the second plurality of holes to allow the organic source vapors distributed by the transfer gas distributor to exit the source chamber” (emphasis added).

Applicants submit that none of the cited references, individually or in combination, teach or suggest these elements.

The Examiner recognizes that Nishikawa does not disclose a conic block or a conic plate, but relies on Randive, Takamatsu or Ono for supplying the missing elements. However, Applicants submit that none of the cited references disclose “the transfer gas inlet formed by a first plurality of holes....to allow the transfer gas to enter the source chamber” and “the organic source vapor outlet formed by a second plurality of holes....to allow the organic source vapors....to exit the source chamber.” None of the cited references disclose the structure of the recited transfer gas inlet and the organic source vapor outlet. Thus, Applicants submit that amended Claim 1 is non-obvious over the cited references.

Additionally, in Randive, the conic shape 86 is to prevent liquid from entering the outlet tube 80 (col. 5, lines 47-50). In Takamatsu, the conic shape is to accommodate heating elements 8 (FIGs. 1A-1C). In Ono, the lower surface of the conic shape is designed to retain liquid that passes through the distributor (Abstract). None of the references disclose the use of a conic block or a conic plate to distribute the transfer gas widely along an outer inclined plane of the conic block or the conic plate.

For at least the foregoing reasons, Claim 1 and its dependent claims are non-obvious over the cited references. Accordingly, reconsideration and withdrawal of the rejection of Claims 1, 3, 4, 6, and 8 are requested.

B. Claim 2 is rejected under 35 U.S.C. §103(a) as being unpatentable over Nishiwaka taken in view of Randive, Takamatsu or Ono for the reasons discussed above, and taken in further view of U.S. Patent No. 6,059,885 issued to Ohashi (“Ohashi”) or U.S. Patent No. 6,444,039 issued to Nguyen (“Nguyen”).

Claim 2 depends from Claim 1 and incorporates the limitations thereof. Thus, for at least the reasons mentioned above in regard to Claim 1, Nishiwaka taken in view of Randive, Takamatsu or Ono does not teach or suggest each of the elements of Claim 2.

Ohashi/Nguyen is relied on for disclosing the shower curtain. However, Ohashi/Nguyen does not disclose the recited transfer gas inlet and the organic source vapor outlet. Thus, the cited references do not, separately or in combination, teach or suggest each of the elements of Claim 2. Accordingly, reconsideration and withdrawal of the rejection of Claim 2 are respectfully requested.

C. Claims 6, 11 and 12 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Nishiwaka taken in view of Randive, Takamatsu or Ono for the reasons discussed above, and taken in further view of U.S. Patent No. 5,882,416 issued to Van Buskirk (“Van Buskirk”). Applicants respectfully traverse the rejection.

Independent Claim 11 is amended to include the limitations of “wherein the transfer gas enters the source chamber through the transfer gas inlet formed by a first plurality of holes at a rear end of the transfer gas transfer line that extends into the source chamber, and the transfer gas exits the source chamber through an organic source vapor outlet formed by a second plurality of holes at a front end of the organic source vapor transfer line that extends into the source chamber.” For at least the reasons mentioned above in regard to Claim 1, Nishiwaka taken in view of Randive, Takamatsu or Ono does not teach or suggest these limitations.

Van Buskirk is relied on for disclosing a source vapor transfer line. However, Van Buskirk also does not disclose the recited transfer gas inlet and the organic source vapor outlet. Thus, Claims 1 and 11, as well as their respective dependent Claims 6 and 12, are non-obvious over the cited references. Accordingly, reconsideration and withdrawal of the rejection of Claims 6, 11 and 12 is respectfully requested.

D. Claims 1, 9 and 11-14 stand rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 6,461,436 issued to Campbell (“Campbell”) taken in view of U.S. Patent No. 6,969,539 issued to Gordon (“Gordon”) and in further view of any one of Randive, Takamatsu or Ono and in further view of U.S. Patent No. 6,630,201 issued to Chiang (“Chiang”) or PCT Application No. WO 01/40541 to Aro (“Aro”).

Campbell is relied on for disclosing an atomic layer deposition (ALD). However, Campbell does not disclose the transfer gas inlet and the organic source vapor outlet, as recited in Claims 1 and 11. Gordon, any one of Randive, Takamatsu or Ono, and Chiang or Aro do not supply the missing elements. Thus, Claims 1 and 11, as well as their respective dependent Claims 9 and 12-14, are non-obvious over the cited references. Accordingly, reconsideration and withdrawal of the rejection of Claims 1, 9, and 11-14 is respectfully requested.

E. Claim 10 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Campbell taken in view of Gordon and in further view of any one of Randive, Takamatsu or Ono and in further view of Chiang or Aro, and taken in further view of Van Buskirk.

Claim 10 depends from Claim 1 and incorporates the limitations thereof. Thus, for at least the reasons mentioned above in regard to Claim 1, the cited references do not teach or suggest each of the elements of Claim 10. Accordingly, reconsideration and withdrawal of the rejection of Claim 10 is respectfully requested.

CONCLUSION

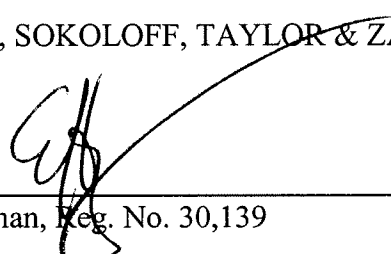
In view of the foregoing, it is believed that all claims are now in condition for allowance and such action is earnestly solicited at the earliest possible date. If there are any additional fees due in connection with the filing of this response, please charge those fees to our Deposit Account No. 02-2666.

Respectfully submitted,

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